

Notice of Allowability

Application No.

09/773,274

Examiner

Pedro J. Cuevas

Applicant(s)

SILVA ET AL.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on January 29, 2003.
2. ☒ The allowed claim(s) is/are 1,2,12-17,20-26,29 and 30.
3. ☒ The drawings filed on 19 September 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____. |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____. | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 2, 12-17, 20-26, 29, and 30 are allowed.
2. The following is an examiner's statement of reasons for allowance.

Bradfield disclose fan and slip ring assembly for an electric machine, comprising:

a rotor for said electric machine, said rotor comprising a rotatable shaft along a longitudinal axis of rotation and a field-generating coil disposed within an interior cavity, said field-generating coil comprising a plurality of turns of electrical wire, said electrical wire further having a coil lead extending to and being electrically coupled to a lead of a slip ring, said coil lead and said lead of said slip ring defining at a point of securement having a pair of coil leads;

first and second pole pieces affixed to said shaft for rotation therewith, and together defining an interior cavity;

a fan having a central aperture through which the shaft passes, the pair of coil leads passing through a pair of openings in said fan; and

a pair of slip rings longitudinally spaced from said fan, each slip ring having a coupling terminal, said slip rings being secured to said shaft, one of said coupling terminals being secured to one of said pair of coil leads of said coil, and the other one of said coupling terminals being secured to the other one of said pair of coil leads.

Bradfield et al. teach a pair of retaining members for securing said pair of coil leads and said pair of coupling terminals to said fan for the purpose of locking or fixing the twisted wire

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portions made by the electrical connections between the ends of the field coils and the slip rings to a fan that is formed of thermoplastic material.

Giamati et al. teach the construction of a brush assembly for a rotating ice protection system having replacement pieces for the purpose of having pieces, which can be used to build the device or to substitute original worn out pieces.

The prior art of record, taken alone or in combination, fails to teach the construction of a replacement slip ring assembly as disclosed on independent claims 1 and 2, wherein:

a pair of replacement slip rings are secured to the electric machine after an original slip ring assembly is removed from the electric machine, and

said pair of retaining members provide a means for securing the pair of coil leads and the coupling terminals to the fan in substantially the same location as the pair of coil leads and the coupling terminals of the original slip ring assembly.

Dependent claims 12-17, 20-26, 29, and 30 are considered allowable by their respective dependence on allowed independent claims 1 and 2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

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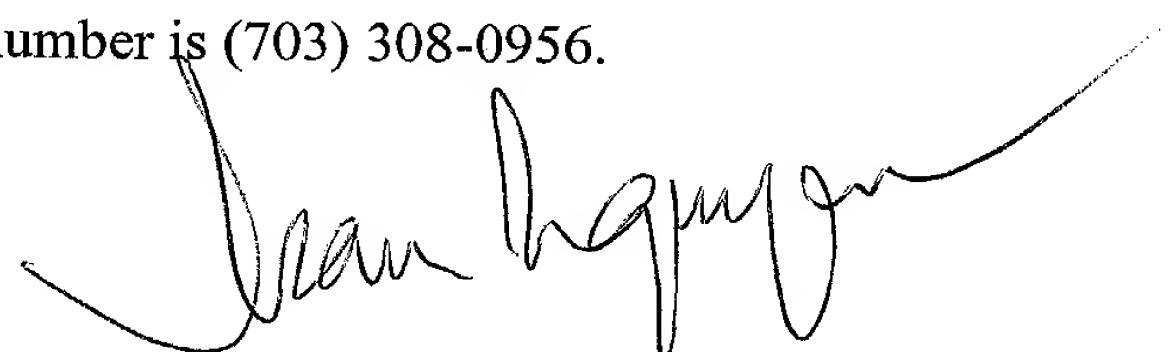
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas
March 20, 2003



TRAN NGUYEN
PRIMARY EXAMINER